

DOCKET NO.: ASZN0033-100 (101063 US)

PATENT

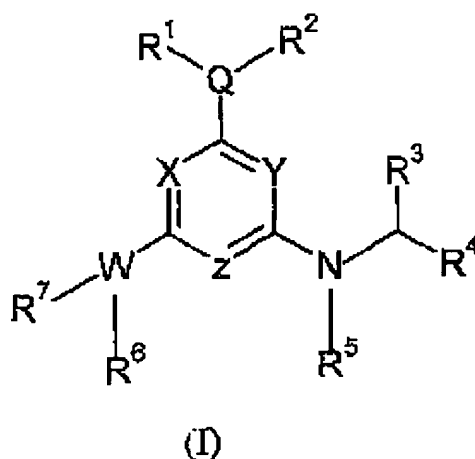
IAP17 Rec'd PCT/PTO 27 DEC 2005

In the Claims:

The current status of all claims is listed below and supercedes all previous lists of claims.

Please cancel claims 41-43, and amend claims 1, 12-19, 34-40, and 44-49 as follows:

1. (currently amended) A compound of formula(I) or a pharmaceutically acceptable salt thereof:



wherein:

Q is C, CH or N;

W is N or S, when W is S, R⁶ is not present;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R¹ and R² are at each occurrence independently selected from H, CH₃, optionally substituted C₁₋₆alkyl, optionally substituted carbocycle, or optionally substituted heterocycle; or R¹ and R² in combination can form an optionally substituted heterocycle, or an optionally substituted carbocycle;

R³ is selected from H, or optionally substituted C₁₋₆alkyl;

R⁴ is selected from H, optionally substituted C₁₋₆alkyl, -C(=O)OCH₃, optionally substituted carbocycle, -C(=O)NH(CH₂) heterocycle, or -C(=O)NH(CH₂)CH₃;

R⁵ is selected from H, or CH₃;

R⁶ is selected from H; and

R⁷ is selected from optionally substituted carbocycle.

2. (original) A compound of claim 1, wherein:
Q is N.
3. (original) A compound of claim 1, wherein:
W is S, and R⁶ is not present.
4. (original) A compound of claim 1, wherein:
X is C.
5. (original) A compound of claim 1, wherein:
Y is N.
6. (original) A compound of claim 1, wherein:
Z is N.
7. (original) A compound of claim 1, wherein:
R¹ and R² are at each occurrence are independently selected from H, or optionally substituted carbocycle, or optionally substituted heterocycle.
8. (original) A compound of claim 1, wherein:
R³ is an optionally substituted C₁₋₆alkyl.
9. (original) A compound of claim 1, wherein:
R⁴ is -C(=O)NH(CH₂) heterocycle.

10. (original) A compound of claim 1, wherein:
R⁵ is selected from H.
11. (original) A compound of claim 1, wherein:
R⁷ is an optionally substituted carbocycle.
12. (currently amended) A compound of claim 1, wherein:
Q is N or C;
W is S, and R⁶ is not present;
X is C or N, provided that when Y and Z are C, X is N;
Y is C or N, provided that when X and Z are C, Y is N;
Z is C or N, provided that when X and Y are C, Z is N;
R¹ and R² are at each occurrence independently selected from H, or optionally substituted carbocycle; or optionally substituted heterocycle or optionally substituted C₁₋₆alkyl;
R³ is selected from H, or optionally substituted C₁₋₆alkyl;
R⁴ is selected from H, -C(=O)NH(CH₂) heterocycle or optionally substituted carbocycle;
R⁵ is selected from H; and
R⁷ is selected from optionally substituted carbocycle.
13. (currently amended) A compound of claim 1, wherein:
Q is N or C;
W is S, and R⁶ is not present;
X is C or N, provided that when Y and Z are C, X is N;
Y is C or N, provided that when X and Z are C, Y is N;
Z is C or N, provided that when X and Y are C, Z is N;
R¹ and R² are at each occurrence independently selected from H, or optionally substituted carbocycle; or optionally substituted heterocycle or optionally substituted C₁₋₆alkyl;
R³ is selected from H, or optionally substituted C₁₋₆alkyl;

R⁴ is selected from H, or -C(=O)NH(CH₂) heterocycle;

R⁵ is selected from H; and

R⁷ is selected from optionally substituted carbocycle.

14. (currently amended) A compound of claim 1, wherein:

Q is N or C;

W is S, and R⁶ is not present;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R¹ and R² are at each occurrence independently selected from H, or optionally substituted carbocycle; or optionally substituted heterocycle;

R³ is selected from H, or optionally substituted C₁₋₆alkyl;

R⁴ is selected from H, -C(=O)NH(CH₂)heterocycle;

R⁵ is selected from H; and

R⁷ is selected from optionally substituted carbocycle.

15. (currently amended) A compound of claim 1, wherein:

Q is N or C;

W is S, and R⁶ is not present;

X is C or N;

Y is N;

Z is N;

R¹ and R² are at each occurrence independently selected from H, or optionally substituted carbocycle; or optionally substituted heterocycle;

R³ is selected from H, or optionally substituted C₁₋₆alkyl;

R⁴ is selected from H, -C(=O)NH(CH₂) heterocycle;

R⁵ is selected from H; and

R⁷ is selected from optionally substituted carbocycle.

16. (currently amended) A compound of claim 1, wherein:

Q is N;

W is S, and R⁶ is not present;

X is C or N;

Y is N;

Z is N;

R¹ and R² are at each occurrence independently selected from H, or optionally substituted carbocycle; or optionally substituted heterocycle;

R³ is selected from H, or optionally substituted C₁₋₆alkyl;

R⁴ is selected from H, -C(=O)NH(CH₂)heterocycle;

R⁵ is selected from H; and

R⁷ is selected from optionally substituted carbocycle.

17. (currently amended) A compound of claim 1, wherein:

Q is N;

W is S, and R⁶ is not present;

X is C;

Y is N;

Z is N;

R¹ and R² are at each occurrence independently selected from H, or optionally substituted carbocycle; or optionally substituted heterocycle;

R³ is selected from H, or optionally substituted C₁₋₆alkyl;

R⁴ is selected from H, -C(=O)NH(CH₂)heterocycle;

R⁵ is selected from H; and

R⁷ is selected from optionally substituted carbocycle.

18. (currently amended) A compound ~~acceding~~ according to claim 1 selected from:

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(2-hydroxypropyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-morpholin-4-yl-1,3,5-triazin-2-yl}-L-leucinate;

(2R)-2-({4-[(3-fluorophenyl)amino]-6-[(3-methoxypropyl)amino]-1,3,5-triazin-2-yl}amino)-4-methylpentan-1-ol;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxybenzyl)amino]-1,3,5-triazin-2-yl}-D-leucinate;

Methyl N-{4-[(cyclopropylmethyl)amino]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-D-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(3-methoxypropyl)amino]-1,3,5-triazin-2-yl}-D-leucinate;

(2R)-2-({4-[(cyclopropylmethyl)amino]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}amino)-4-methylpentan-1-ol;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(tetrahydrofuran-2-ylmethyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-(4-[(3-fluorophenyl)amino]-6-{[3-(1H-imidazol-1-yl)propyl]amino}-1,3,5-triazin-2-yl)-L-leucinate;

Methyl N-{4-[(2-anilinoethyl)amino]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(2-hydroxy-2-phenylethyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-(4-[(3-fluorophenyl)amino]-6-{[2-(4-methoxyphenyl)ethyl]amino}-1,3,5-triazin-2-yl)-L-leucinate;

Methyl N-{4-[(2,3-dihydroxypropyl)amino]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-[4-[(3-fluorophenyl)amino]-6-(3-hydroxypyrrolidin-1-yl)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-{4-[(2-amino-2-oxoethyl)(methyl)amino]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

(2R)-2-[(4-[(3-fluorophenyl)amino]-6-{[2-(4-methoxyphenyl)ethyl]amino}-1,3,5-

triazin-2-yl)amino]-4-methylpentan-1-ol;

Methyl N-{4-[(2-cyanoethyl)(methyl)amino]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-[4-[(3-fluorophenyl)amino]-6-(4-pyridin-4-ylpiperazin-1-yl)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-{4-(4-cyano-4-phenylpiperidin-1-yl)-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(3-hydroxy-2,2-dimethylpropyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(3-morpholin-4-ylpropyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-({2-[4-(aminosulfonyl)phenyl]ethyl}amino)-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-{[2-(dimethylamino)ethyl]amino}-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-(4-[(3-fluorophenyl)amino]-6-{[2-(2-hydroxyethoxy)ethyl]amino}-1,3,5-triazin-2-yl)-L-leucinate;

Methyl N-{4-[(2-fluorophenyl)amino]-6-[(4-hydroxybutyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-(4-[(3-fluorophenyl)amino]-6-{[3-(2-oxopyrrolidin-1-yl)propyl]amino}-1,3,5-triazin-2-yl)-L-leucinate;

Methyl N-[4-[(3-fluorophenyl)amino]-6-(4-methoxyphenyl)-1,3,5-triazin-2-yl]-L-leucinate;

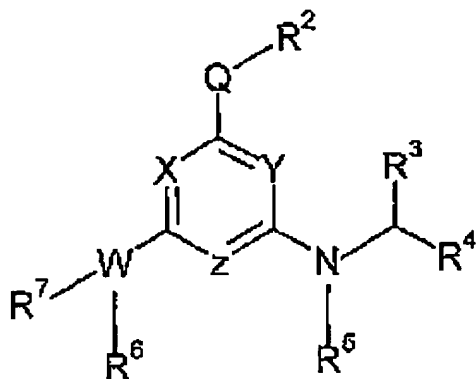
Methyl N-[4-[(3-fluorophenyl)amino]-6-(4-methoxybenzyl)-1,3,5-triazin-2-yl]-D-leucinate;

Methyl N-[4-[(3-fluorophenyl)amino]-6-(4-methoxybenzyl)-1,3,5-triazin-2-yl]glycinate;

(2S)-2-{[4-[(3-fluorophenyl)amino]-6-(4-methoxybenzyl)-1,3,5-triazin-2-yl]amino}-4-methylpentan-1-ol;

N^2 -Benzyl- N^4 -(3-fluorophenyl)-6-(4-methoxybenzyl)-1,3,5-triazine-2,4-diamine;
 N^2 -{4-[(5-fluoro-2-methylphenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-
 N^1 -(tetrahydrofuran-2-ylmethyl)-L-leucinamide;
 N^2 -{4-[(5-fluoro-2-methylphenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-
 N^1 -propyl-L-leucinamide;
 N^2 -{4-[(3-cyanophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -
(tetrahydrofuran-2-ylmethyl)-L-leucinamide;
 N^2 -{4-[(5-Chloro-2-methylphenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-
 N^1 -(tetrahydrofuran-2-ylmethyl)-L-leucinamide;
 N^2 -{4-[(3,5-Difluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -
(tetrahydrofuran-2-ylmethyl)-L-leucinamide;
Methyl N-[4-[(3-fluorophenyl) amino]-6-(4-methoxybenzyl)pyrimidin-2-yl]-L-
leucinate;
Methyl N-[2-[(3-fluorophenyl) amino]-6-(4-methoxybenzyl)pyrimidin-4-yl]-L-
leucinate;
(S)-2-[4-(3-Fluoro-phenylamino)-6-(4-methoxy-phenylsulfanyl)-1-oxy-pyridin-2-
ylamino]-4- methyl-pentanoic acid methyl ester;
2-[6-(3-Fluoro-phenylamino)-2-(4-methoxy-phenylsulfanyl)-pyrimidin-4-ylamino]-4-
methyl-pentanoic acid methyl ester;
(S)-2-[4-(3-Cyano-phenylamino)-6-(quinolin-8-ylsulfanyl)-pyrimidin-2-ylmethyl]-4-
methyl-pentanoic acid (tetrahydro-furan-2-ylmethyl)-amide; and
(S)-2-[4- (4-Amino-phenylsulfanyl)-6-(3-cyano-phenylamino)-pyrimidin-2-ylmethyl]-
4- methyl-pentanoic acid (tetrahydro-furan-2-ylmethyl)-~~amide~~; amide.

19. (currently amended) A compound of formula (II) or a pharmaceutically acceptable salt thereof:



(II)

wherein:

Q is O, S, SO or SO₂;

W is N or halogen, when W is halogen neither R⁶ nor R⁷ are present;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R² is selected from H, optionally substituted C₁₋₆alkyl, optionally substituted carbocycle, or optionally substituted heterocycle;

R³ is selected from H, or optionally substituted C₁₋₆alkyl;

R⁴ is selected from H, optionally substituted C₁₋₆alkyl, optionally substituted heterocycle, cyano, -C(=O)OCH₃, -C(=O)OCH₃, -C(=O)NH₂, -C(=O)NH-optionally substituted C₁₋₆alkyl, -C(=O)NH(CH₂)₀₋₃-optionally substituted carbocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, -C(=O)NH(CH₂)₁₋₃N(CH₃)₂, C(=O)NH(CH₂)₁₋₃C(OCH₃)₂, C(=O)NH(CH₂)₁₋₃NHC(=O)OC(CH₃)₃, -C(=O)NH(CH₂)₁₋₃O(CH₂)₁₋₃OH, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₁₋₃C(=O)OCH₃, -C(=O)NH(CH₂)₁₋₃OC(CH₃)₃, -C(=O)NH(CH₂)₁₋₃SCH₃, or C(=O)NH(CH₂)₁₋₃C(=O)OH;

R⁵ is selected from H, or CH₃;

or R⁴ and R⁵ in combination form an optionally substituted heterocycle;

R⁶ is selected from H or CH₃; and

R⁷ is selected from optionally substituted C₁₋₆alkyl, optionally substituted carbocycle,

optionally substituted heterocycle, or $-(CH_2)_{1-3}$ -optionally substituted carbocycle.

20. (original) A compound of claim 19, wherein:
Q is S.
21. (original) A compound of claim 19, wherein:
W is N.
22. (original) A compound of claim 19, wherein:
X is N.
23. (original) A compound of claim 19, wherein:
X is C.
24. (original) A compound of claim 19, wherein:
Y is N.
25. (original) A compound of claim 19, wherein:
Y is C.
26. (original) A compound of claim 19, wherein:
Z is N.
27. (original) A compound of claim 19, wherein:
Z is C.
28. (original) A compound of claim 19, wherein:
 R^2 is optionally substituted carbocycle.

29. (original) A compound of claim 19, wherein:
R³ is optionally substituted C₁₋₆alkyl.
30. (original) A compound of claim 19, wherein:
R⁴ is selected from, -C(=O)OCH₃, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, or -C(=O)NH(CH₂)₁₋₃SCH₃.
31. (original) A compound of claim 19, wherein:
R⁵ is selected from H, or CH₃.
32. (original) A compound of claim 19, wherein:
R⁶ is selected from H or CH₃.
33. (original) A compound of claim 19, wherein:
R⁷ is optionally substituted carbocycle.
34. (currently amended) A compound of claim 19:
wherein:
Q is S, SO or SO₂;
W is N;
X is C or N, provided that when Y and Z are C, X is N;
Y is C or N, provided that when X and Z are C, Y is N;
Z is C or N, provided that when X and Y are C, Z is N;
R² is selected from H, optionally substituted carbocycle, or optionally substituted heterocycle;
R³ is optionally substituted C₁₋₆alkyl;
R⁴ is selected from, -C(=O)OCH₃, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, -C(=O)NH(CH₂)₁₋₃SCH₃, optionally substituted heterocycle, cyano, -C(=O)NH₂, -C(=O)NH-optionally substituted C₁₋₆alkyl,

-C(=O)NH(CH₂)₀₋₃-optionally substituted carbocycle, -C(=O)NH(CH₂)₁₋₃N(CH₃)₂, C(=O)NH(CH₂)₁₋₃C(OCH₃)₂, C(=O)NH(CH₂)₁₋₃NHC(=O)OC(CH₃)₃, -C(=O)NH(CH₂)₁₋₃O(CH₂)₁₋₃OH, -, -C(=O)NH(CH₂)₁₋₃C(=O)OCH₃, -C(=O)NH(CH₂)₁₋₃OC(CH₃)₃, or C(=O)NH(CH₂)₁₋₃C(=O)OH;

R⁵ is H;

or R⁴ and R⁵ in combination form an optionally substituted heterocycle;

R⁶ is selected from H; and

R⁷ is selected from, optionally substituted carbocycle, optionally substituted heterocycle, or -(CH₂)₁₋₃-optionally substituted carbocycle.

35. (currently amended) A compound of claim 19:

wherein:

Q is S;

W is N;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R² is selected from H, optionally substituted carbocycle, or optionally substituted heterocycle;

R³ is optionally substituted C₁₋₆alkyl;

R⁴ is selected from, -C(=O)OCH₃, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, -C(=O)NH(CH₂)₁₋₃SCH₃, optionally substituted heterocycle, cyano, -C(=O)NH₂, -C(=O)NH-optionally substituted C₁₋₆alkyl, -C(=O)NH(CH₂)₀₋₃-optionally substituted carbocycle, -C(=O)NH(CH₂)₁₋₃N(CH₃)₂, C(=O)NH(CH₂)₁₋₃C(OCH₃)₂, C(=O)NH(CH₂)₁₋₃NHC(=O)OC(CH₃)₃, -C(=O)NH(CH₂)₁₋₃O(CH₂)₁₋₃OH, -, -C(=O)NH(CH₂)₁₋₃C(=O)OCH₃, -C(=O)NH(CH₂)₁₋₃OC(CH₃)₃, or C(=O)NH(CH₂)₁₋₃C(=O)OH;

R⁵ is H;

or R⁴ and R⁵ in combination form an optionally substituted heterocycle;

R⁶ is selected from H; and

R⁷ is selected from, optionally substituted carbocycle, optionally substituted heterocycle, or -(CH₂)₁₋₃-optionally substituted carbocycle.

36. (currently amended) A compound of claim 19:

wherein:

Q is S;

W is N;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R² is selected from H, optionally substituted carbocycle;

R³ is optionally substituted C₁₋₆alkyl;

R⁴ is selected from, -C(=O)OCH₃, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, -C(=O)NH(CH₂)₁₋₃SCH₃, optionally substituted heterocycle, cyano, -C(=O)NH₂, -C(=O)NH-optionally substituted C₁₋₆alkyl, -C(=O)NH(CH₂)₀₋₃-optionally substituted carbocycle, -C(=O)NH(CH₂)₁₋₃N(CH₃)₂, C(=O)NH(CH₂)₁₋₃C(OCH₃)₂, C(=O)NH(CH₂)₁₋₃NHC(=O)OC(CH₃)₃, -C(=O)NH(CH₂)₁₋₃O(CH₂)₁₋₃OH, -, -C(=O)NH(CH₂)₁₋₃C(=O)OCH₃, -C(=O)NH(CH₂)₁₋₃OC(CH₃)₃, or C(=O)NH(CH₂)₁₋₃C(=O)OH;

R⁵ is H;

R⁶ is selected from H; and

R⁷ is selected from, optionally substituted carbocycle, optionally substituted heterocycle, or -(CH₂)₁₋₃-optionally substituted carbocycle.

37. (currently amended) A compound of claim 19:

wherein:

Q is S;

W is N;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R² is an optionally substituted carbocycle;

R³ is optionally substituted C₁₋₆alkyl;

R⁴ is selected from, -C(=O)OCH₃, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, -C(=O)NH(CH₂)₁₋₃SCH₃, optionally substituted heterocycle, cyano, -C(=O)NH₂, -C(=O)NH-optionally substituted C₁₋₆alkyl, -C(=O)NH(CH₂)₀₋₃-optionally substituted carbocycle, -C(=O)NH(CH₂)₁₋₃N(CH₃)₂, C(=O)NH(CH₂)₁₋₃C(OCH₃)₂, C(=O)NH(CH₂)₁₋₃NHC(=O)OC(CH₃)₃, -C(=O)NH(CH₂)₁₋₃O(CH₂)₁₋₃OH, -C(=O)NH(CH₂)₁₋₃C(=O)OCH₃, -C(=O)NH(CH₂)₁₋₃OC(CH₃)₃, or C(=O)NH(CH₂)₁₋₃C(=O)OH;

R⁵ is H;

R⁶ is selected from H; and

R⁷ is optionally substituted ~~carbocycle~~, carbocycle.

38. (currently amended) A compound of claim 19:

wherein:

Q is S;

W is N;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R² is an optionally substituted carbocycle;

R³ is optionally substituted C₁₋₆alkyl;

R⁴ is selected from, -C(=O)OCH₃, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, -C(=O)NH(CH₂)₁₋₃SCH₃, optionally substituted heterocycle, -C(=O)NH₂, -C(=O)NH(CH₂)₀₋₃-optionally substituted carbocycle;

R⁵ is H;

R⁶ is selected from H; and

R⁷ is optionally substituted carbocycle.

39. (currently amended) A compound of claim 19:

wherein:

Q is S;

W is N;

X is C or N, provided that when Y and Z are C, X is N;

Y is C or N, provided that when X and Z are C, Y is N;

Z is C or N, provided that when X and Y are C, Z is N;

R² is optionally substituted carbocycle;

R³ is optionally substituted C₁₋₆alkyl;

R⁴ is selected from, -C(=O)OCH₃, -C(=O)-optionally substituted heterocycle, -C(=O)NH(CH₂)₀₋₃-optionally substituted heterocycle, or -C(=O)NH(CH₂)₁₋₃SCH₃;

R⁵ is selected from H;

R⁶ is selected from H; and

R⁷ is optionally substituted carbocycle.

40. (currently amended) A compound according to claim 19 selected from:

Methyl N-{4-(4-methoxyphenoxy)-6-[(thien-2-ylmethyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-[4-(4-methoxyphenoxy)-6-(2-pyridin-4-ylethyl)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-[(2,3-dihydroxypropyl)amino]-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-4-(4-methoxyphenoxy)-6-[(tetrahydrofuran-2-ylmethyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-[4-[(3-fluorobenzyl)amino]-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-[(2-methoxybenzyl)amino]-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-[(3,5-difluorobenzyl)amino]-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-[(3,5-dichlorobenzyl)amino]-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-(benzylamino)-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-(butylamino)-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-(pentylamino)-6-(4-methoxyphenoxy)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl} glycinate;

(2R)-2-({4-[(5-chloro-2-methylphenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}amino)-4-methylpentan-1-ol;

Methyl N-{4-[(5-chloro-2-methylphenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinate;

1-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}pyrrolidin-3-ol;

N²-4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinamide;

N²-(3-fluorophenyl)-N⁴-isopentyl-6-[(4-methoxyphenyl)thio]-1,3,5-triazine-2,4-diamine;

(2S)-2-({4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}amino)-4-methylpentan-1-ol;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-phenylalaninate;

2-({4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}amino)propan-1-ol;

N^2 -(2,2-Dimethoxyethyl)- N^4 -(3-fluorophenyl)-6-[(4-methoxyphenyl)thio]-1,3,5-triazine-2,4-diamine;

Ethyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-b-alaninate;

3-[{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl} (methyl)amino]propanenitrile;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-alaninate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-D-leucinate;

Methyl N-{4-[(2,3-dihydroxypropyl)thio]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-4-[(3-fluorophenyl)amino]-6-[(3-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)(methyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinate;

(R)-2-({4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}amino)-4-methylpentan-1-ol;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(2-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-[4-[(3-fluorophenyl)amino]-6-(phenylthio)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-[4-[(3-fluorophenyl)amino]-6-(quinolin-2-ylthio)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-{4-[(4-aminophenyl)thio]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-4-[(3-bromophenyl)thio]-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-[4-[(3-fluorophenyl)amino]-6-(pyrimidin-2-ylthio)-1,3,5-triazin-2-yl]-L-leucinate;

Methyl N-{4-{[2-(dimethylamino)ethyl]thio}-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-({1-[2-(dimethylamino)ethyl]-1H-tetrazol-5-yl}thio)-6-[(3-fluorophenyl)amino]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)sulfinyl]-1,3,5-triazin-2-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)sulfonyl]-1,3,5-triazin-2-yl}-L-leucinate;

N¹-[2-(Dimethylamino)ethyl]-N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N¹-(tetrahydrofuran-2-ylmethyl)-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N¹-(2-morpholin-4-ylethyl)-L-leucinamide;

N¹-{2-[(tert-Butoxycarbonyl)amino]ethyl}-N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N⁹-(pyridin-3-ylmethyl)-L-leucinamide;

N¹-(3,5-Difluorobenzyl)-N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N¹-(2-furylmethyl)-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N¹-[3-(2-oxopyrrolidin-1-yl)propyl]-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N¹-(3-methoxybenzyl)-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N¹-(2-piperidin-1-ylethyl)-L-leucinamide;

N²-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-N¹-[2-(2-

hydroxyethoxy)ethyl]-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}- N^1 -phenyl-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}- N^1 -propyl-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}- N^1 -(2-pyrrolidin-1-ylethyl)-L-leucinamide;

N^2 -(3-fluorophenyl)-6-[(4-methoxyphenyl)thio]- N^4 -[(1S)-3-methyl-1-(morpholin-4-ylcarbonyl)butyl]-1,3,5-triazine-2,4-diamine;

N^1 -{2-[4-(aminosulfonyl)phenyl]ethyl}- N^2 -4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}- N^1 -[2-(1-methylpyrrolidin-2-yl)ethyl]-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}- N^1 -(3-methoxypropyl)-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]-1,3,5-triazin-2-yl}- N^1 -(pyridin-2-ylmethyl)-L-leucinamide;

Methyl N-{2-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-4-yl}-L-leucinate;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-L-leucinate;

N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-leucine;

N-{4-[(3-fluorophenyl)(methyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-L-leucine;

N-{4-chloro-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-N-methyl-leucine;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}-N-methylleucinate;

N^2 -[4-[(3-fluorophenyl)amino]-6-(quinolin-2-ylthio)pyrimidin-2-yl]- N^1 -(tetrahydrofuran-2-ylmethyl)-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -(2-furylmethyl)-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -(tetrahydrofuran-2-ylmethyl)-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio] pyrimidin-2-yl}- N^1 -propyl-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl) thio]pyrimidin-2-yl}- N^1 -(2-morpholin-4-ylethyl)-L-leucinamide;

N^1 -(2,2-methoxyethyl)- N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl) thio]pyrimidin-2-yl}-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -(2-pyridin-2 ylethyl)-L-leucinamide;

Methyl N-{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio] pyrimidin-2-yl}-L-leucylglycinate;

N^2 -{4-[(3-fluorophenyl) amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -[3-(1H-imidazol-1-yl)propyl] -L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl) thio]pyrimidin-2-yl}- N^1 -(2-isopropoxyethyl)-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl) thio]pyrimidin-2-yl}- N^1 -[2-(methylthio)ethyl]-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxypheny)thio]pyrimidin-2-yl}- N^1 -pentyl-L-leucinamide;

N-{4-[(3-fluorophenyl)amino-6-[(4-methoxyphenyl) thio]pyrimidin-2-yl]-L-leucylglycine;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -[(2-(1H-imidazol-5-yl)ethyl)-L-leucinamide;

N^2 -{4-[(3-fluorophenyl) amino]-6-[(4-methoxyphenyl) thio]pyrimidin-2-yl}- N^1 -methoxy- N^1 -methyl-L-leucinamide;

N^2 -{4-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl) thio]pyrimidin-4-yl}- N^1 -(2-

morpholin-4-ylethyl)-L-leucinamide;

N^2 -{2-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-4-yl}- N^1 -(tetrahydrofuran-2-ylmethyl)-L-leucinamide;

N^2 -{2-[(3-fluorophenyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-4-yl}- N^1 -propyl-L-leucinamide;

(S)-2-[4-(3-Cyano-phenylamino)-6-(thiazol-2-ylsulfanyl)-pyrimidin-2-ylmethyl]-4-methyl-pentanoic acid (tetrahydro-furan-2-ylmethyl)-amide;

(S)-2-[4-(3-Cyano-phenylamino)-6-(pyridin-2-ylsulfanyl)-pyrimidin-2-ylmethyl]-4-methyl-pentanoic acid(tetrahydro-furan-2-ylmethyl)-amide;

N^2 -{4-[(3-Methyl-propyl)thio]amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -(tetrahydrofuran-2-ylmethyl)-L-~~leucinamide~~ leucinamide;

N^2 -{4-[(2-Pyridyl)amino]-6-[(4-methoxyphenyl)thio]pyrimidin-2-yl}- N^1 -(tetrahydrofuran-2-ylmethyl)-L-~~leucinamide~~ leucinamide;

(S)-2-[4-(3-Cyano-phenylamino)-6-(4-methoxy-phenylsulfanyl)-pyrimidin-2-ylmethyl]-4-methyl-pentanoic acid (2-methylsulfanyl-ethyl)-amide;

N^2 -{2-[(3-Fluorophenyl) aminol-6-[(4-methoxyphenyl)thio]pyrimidin-4-yl}- N^1 -1-morpholin-4-yl-L-~~leucinamide~~ leucinamide;

2-[6-(3-Fluoro-phenylamino)-2-(4-methoxy-phenylsulfanyl)-pyrimidin-4-ylamino]-4-methyl-pentanoic acid methyl ester;

(S)-2-[6-(3-Fluoro-phenylamino)-4-(4-methoxy-phenylsulfanyl)-pyridin-2-ylamino]-4-methyl-pentanoic acid methyl ester;

N^2 -(3-Fluoro-phenyl)-6-(4-methoxy-phenylsulfanyl)- N^4 -(3-methyl-1-pyridin-2-yl-butyl)-pyrimidine-2,4-diamine;

N^4 -(3-Fluoro-phenyl)-6-(4-methoxy-phenylsulfanyl)- N^2 -(3-methyl-1-pyridin-2-yl-butyl)-pyrimidine-2,4-diamine;

(S)-2-[4-(3-Cyano-phenylamino)-6-(quinolin-8-ylsulfanyl)-pyrimidin-2-ylmethyl]-4-methyl-pentanoic acid (tetrahydro-furan-2-ylmethyl)-amide;

(S)-2-[4-(4-Amino-phenylsulfanyl)-6-(3-cyano-phenylamino)-pyrimidin-2-ylmethyl]-4-methyl-pentanoic acid (tetrahydro-furan-2-ylmethyl)-amide;

(S)-2-[3-(3-Fluoro-phenylamino)-5-(4-methoxy-phenylsulfanyl)-phenylamino]-4-methyl-pentanoic acid methyl ester;

(S)-2-[2-(3-Fluoro-phenylamino)-6-(4-methoxy-phenylsulfanyl)-pyridin-4-ylamino]-4-methyl-pentanoic acid methyl ester;

(S)-2-[6-(3-Fluoro-phenylamino)-4-(4-methoxy-phenylsulfanyl)-1-oxy-pyridin-2-ylamino]-4-methyl-pentanoic acid methyl ester; and

(S)-2-[4-(3-Fluoro-phenylamino)-6-(4-methoxy-phenylsulfanyl)-pyridin-2-ylamino]-4-methyl-pentanoic acid methyl ester.

41-43. (cancelled).

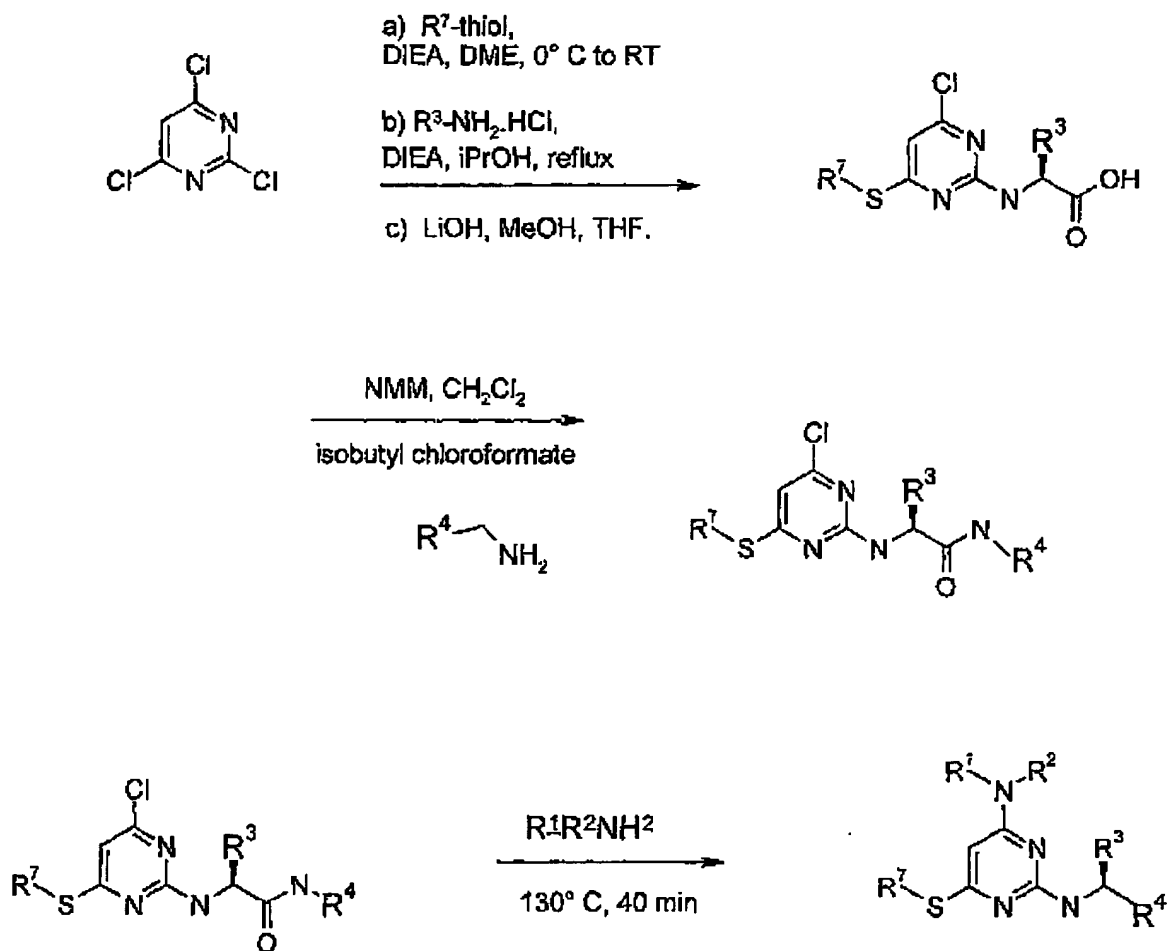
44. (currently amended) A method for the treatment of neurological disorders associated with β -amyloid production comprising ~~administering~~ administering to a warm-blooded animal in need of such treatment a therapeutically effective amount of a compound according to ~~any one of claims 1-40~~ claim 1.

45. (currently amended) A method for inhibiting γ -secretase activity comprising administering to a warm-blooded animal in need of such inhibition a therapeutically effective amount of a compound according to ~~any one of claims 1-40~~ claim 1.

46. (currently amended) A method for the treatment or prophylaxis of Alzheimer's disease or Down's syndrome comprising ~~administering~~ administering to a warm-blooded animal in need of such treatment a therapeutically effective amount of a compound according to ~~any one of claims 1-40~~ claim 1.

47. (currently amended) A pharmaceutical composition comprising a compound according to ~~any one of claims 1-40~~ claim 1, or a pharmaceutically acceptable salt or in vivo hydrolysable ester ~~thereof~~ thereof, together with at least one pharmaceutically acceptable carrier, diluent or excipient.

48. (currently amended) A process for preparing a compound of formula (I) as recited in claim 1 or a pharmaceutically acceptable salt or in vivo hydrolysable ester thereof ~~thereof~~ thereof which process comprises :



49. (currently amended) A process for preparing a compound of formula(II) as recited in claim 19 or a pharmaceutically acceptable salt or in vivo hydrolysable ester ~~thereof~~ thereof which process comprises:

